

CLAIMS

1. An optical switch device which has a movable member mounted with a light-reflecting member for reflecting light that is incident from a Z-direction, and emitting the light from a prescribed position offset in an X-direction; a fixed-side member for movably supporting the movable member in the X- and Y-directions; and drive means for driving the movable member in the X- and Y-directions, the X-, Y-, and Z-directions being perpendicular to each other, characterized in that it comprises:

10 a clamp mechanism provided with a pushing member for switching between a clamped state in which the movable member is pressed and fixed to the fixed-side member, and an unclamped state in which the movable member is released, and a clamping magnetic drive circuit for driving the pushing member, and

15 the clamping magnetic drive circuit has a clamping coil disposed on a first member selected from the pushing member and the fixed-side member, and a clamping magnet disposed on the second member for generating magnetic flux that interlinks with the clamping coil.

2. The optical switch device according to Claim 1, characterized in that the clamping coil is wound so that it is formed with an opening facing the second member,

the clamping magnet is provided with a pair of magnets that project from the second member to the first member, and

20 the pair of magnets are disposed with different poles facing each other and are made to hold the clamping coil from the inside and outside of the opening.

3. The optical switch device according to Claim 2, characterized in that the clamp mechanism is provided with a back yoke positioned behind the pair of magnets inside and outside the opening of the clamping coil.

4. The optical switch device according to any one of Claims 1 to 3, characterized in that the clamp mechanism is provided with an urging member for urging the pushing member into the clamped or unclamped state, and

the clamping magnetic drive circuit is able to move the pushing member against the

5 urging force of the urging member.